

SFUND RECORDS CTR
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2807-90572**CHIPS**
Environmental
Consultants, Inc.718 E. Evelyn Avenue
Sunnyvale, CA 94086

(408)736-1380

Mr. Thomas Fall
BRE Properties
One Montgomery Street
Suite 2500, Telesis Tower
San Francisco, CA 94104

8-4-89

RE: Vapor Mapping services scope at Genus building, 515
Ellis Street, Mountain View, California

Dear Mr. Fall:

As per your request dated 7-28-89 here is the scope of work to be performed at the subject facility.

PURPOSE: It is our understanding that you are concerned about site environmental impairment due to halogenated solvents. Specifically these are: 1,1,1-TCA, TCE, PCE, 1,1-DCE, 1,1-DCA, trans-DCE, chloroform and Freon 113.

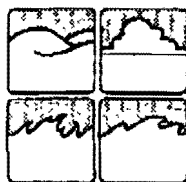
Your intent is for us to map the subsurface concentrations of these solvents in the vadose zone.

PROCEDURE: Soil gas samples will be obtained from the subsurface by driving vapor extraction probes (1/2" diam. x 15' long) into the soil at selected locations. Soil gas will be pumped from each probe (typically 3-5-liters) and a sample will be taken (typically 1-5 cc) for on-site analysis. Analysis will be performed by use of a Hewlett-Packard 5890A Gas Chromatograph employing an Electron Capture Detector (ECD) for detection of the target compounds. Components will be separated using temperature programming on a 6' glass column packed with 1% SP-1000 on Carbopak B 80/100 mesh. Chromatographic data will be collected on a Hewlett-Packard 3392A reporting integrator.

Known standards of the target compounds will be made up on-site in aluminized mylar gas sampling bags as needed. These will be used for instrument calibration.

Our experience dictates that we should search for the optimum vapor mapping depth. This will be done by driving several probes to 5, 10, and 15 feet depth below grade. Soil gas analysis at each depth will give us a good indication of the best depth to perform the rest of the sampling.

Typically, we can expect to achieve 10 to 20 sample/analyses per day (9 hours on-site) depending upon depth, soil structure and site logistics that are beyond our control.



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DATA INTERPRETATION

Field data will be condensed into a computer generated vapor map showing the concentration gradients. A separate vapor gradient map will be generated for each compound if there are significant amounts of that compound present. Three copies of the final report will be delivered within 30 days of the completion of the field work.

If you have any questions concerning this scope, please feel free to contact me at your convenience.

Sincerely,

Mark chips